

**SECURE LONG-RANGE TELEMETRY FOR  
IMPLANTABLE MEDICAL DEVICE**

5

**Abstract**

A method and system for enabling secure communications between an implantable medical device (IMD) and an external device (ED) over a telemetry channel. A telemetry interlock may be implemented which limits any communications  
10 between the ED and the IMD over the telemetry channel, where the telemetry interlock is released when the ED transmits an enable command to the IMD via a short-range communications channel requiring physical proximity to the IMD. As either an alternative or addition to the telemetry interlock, a data communications session between the IMD and ED over the telemetry channel may be allowed to occur only  
15 after the IMD and ED have been cryptographically authenticated to one other.

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